Applicant : Robert W. Hjelmeland

Appln. No. : 10/797,417

Page : 2

In the Specification:

Please replace paragraph [0026] with the following amended paragraph.

When cooling apparatus 14 is assembled, fan 20 is placed on hub 18 such that throughhole 32 receives hub 18 with an-interference a friction fit. More particularly, fan 20 is placed on hub 18 such that ring 30 slides along hub 18 in direction 24 until the increasing diameter of hub 18 matches the diameter of throughhole 32. Due to the friction between ring 30 and hub 18, fan 20 is thus snugly attached to hub 18 with propellers 26 extending in a radial direction from hub 18. When a consumer inserts a compact disc 34 into player 10, player 10 places compact disc 34 on hub 18 in a manner similar to how fan 20 is placed on hub 18. Compact disc 34 also includes a central throughhole (not shown) for receiving hub 18 as is well known in the art.

Please replace paragraph [0027] with the following amended paragraph.

In operation, motor 16 rotates hub 18 at a speed approximately between 230 and 27,900 revolutions per minute. It is possible for motor 16 to rotate hub 18 in either direction, i.e., clockwise or counterclockwise. Both fan 20 and compact disc 34 rotate along with hub 18 by virtue of being attached thereto by an-interference-a friction fit. The rotation of fan 20 can causes propellers 26 to blow air in direction 36 toward a label-side 38 of compact disc 34, i.e., toward a side of compact disk 34 opposite read head 12. Alternatively, fan 20 can be configured such that propellers 26 draw air in direction 24 away from label-side 38.

Regardless of whether fan 20 moves air in direction 36 or in direction 24, the moving air removes heat from label-side 38 of compact disc 34 via convection.

Please replace paragraph [0029] with the following amended paragraph.

Another embodiment of a compact disc player 50 including a read head 52 and a compact disc cooling apparatus 54 of the present invention is shown in FIG. 3. Cooling apparatus 54 includes an actuator in the form of a motor 56 coupled to a hub 58. An airmoving device in the form of a fan 60 is also coupled to or otherwise attached to hub 58. A

Applicant : Robert W. Hjelmeland

Appln. No. : 10/797,417

Page: 3

compression arm 61 is integrally formed with fan 60. That is, compression arm 61 and fan 60 together form a monolithic structure. A compression arm is generally known in the art as a device that pushes a compact disc onto a hub such that a throughhole of the compact disc receives the hub with an-interference-a friction fit.

Please replace paragraph [0031] with the following amended paragraph.

One embodiment of a method 400 of the present invention for processing a compact disc will now be described with reference to FIGS. 3 and 4. In operation, a consumer inserts a compact disc 34 into player 50, and player 50 places compact disc 34 on hub 58 such that a central throughhole (not shown) of compact disc 34 receives hub 58 (step S402). Player 50 then engages compact disc 34 with fan 60 such that compact disc 34 is biased farther onto hub 58 (step S404) in direction 24. In one embodiment, player 50 uses compression arm 61 to push fan 60 into engagement with compact disc 34 until disc 34 is attached to hub 58 with an interference a friction fit. Fan 60 may include one or more optional projections 64 for engaging and pushing fan in direction 24 while maintaining a gap 66 between the propellers of fan 60 and compact disc 34.

Please replace paragraph [0032] with the following amended paragraph.

In a next step, fan 60 is attached to hub 58 (step S406). In a particular embodiment, player 50 uses compression arm 61 to push fan 60 onto hub 58 until fan 60 is attached to hub 58 with an interferencea friction fit. It is possible for compression arm 61 to pull fan 60 back in direction 36 to thereby create gap 66 after fan 60 has pushed compact disc 34 into its proper place. Gap 66 may be small enough that fan 60 is still attached to hub 58 with an interference a friction fit after being pulled back in direction 36 by compression arm 61 to create gap 66.

Please replace paragraph [0044] with the following amended paragraph.

In operation, both fan 130 and compact disc 34 rotate along with hub 128 by virtue of being attached thereto by an interferencea friction fit. The rotation of fan 130 causes propellers 132 to blow air in directions that are dependent upon the design of propellers 132.

Applicant : Robert W. Hjelmeland Appln. No. : 10/797,417 Page : 4

Propellers 132 can be provided with a variety of designs depending upon the requirements of a particular application. Other aspects of compact disc cooling apparatus 124 are substantially similar to those of compact disc cooling apparatus 14, and thus are not discussed in detail herein.